

App. No. 10/708,301
Amendment dated March 15, 2006
Reply to Office action of November 15, 2005

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the present application.

Listing of Claims:

Claim 1 (currently amended): A holder for semiconductor as well as liquid-crystal manufacturing devices, the holder comprising:

a ceramic susceptor of a ceramic whose thermal conductivity is 100 W/mK or more, said susceptor having a retaining side for retaining an object to be processed;

a resistive heating element incorporated in said susceptor, said resistive heating element patterned in a circuit having a pattern spacing of 0.1 mm or more; and

a ~~heat-reflecting~~ metal plate having a thermal conductivity of 100 W/mK or more, said metal plate ~~arranged on~~ mechanically attached to said susceptor opposite said retaining side, for promoting diffusion of heat from said resistive heating element toward said retaining side.

Claim 2 (original): A holder as set forth in claim 1, wherein said metal plate and said ceramic susceptor are fastened by bonding, screws, snug-fitting, or vacuum adhesion.

Claim 3 (original): A holder as set forth in claim 1, wherein the resistive heating element is present beyond the middle in the thickness direction of said susceptor, toward the side opposite said retaining side.

Claim 4 (original): A holder as set forth in claim 1, wherein the ceramic of said ceramic susceptor is any one selected from Al₂O₃, SiO₂, B₄C and BN.

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Claim 5 (cancelled)

Claim 6 (previously presented): A holder as set forth in claim 1, wherein the ceramic of said ceramic susceptor is any one selected from AlN, SiC and Si₃N₄.

Claim 7 (cancelled)

Claim 8 (previously presented): A holder as set forth in claim 1, wherein said metal is any one selected from Al-SiC, Cu-W and Cu-Mo.

Claim 9 (original): A holder as set forth in claim 1, wherein the thickness of said metal plate is thicker than the thickness of said ceramic susceptor.

Claim 10 (original): A holder as set forth in claim 1, wherein the diameter of said ceramic susceptor is 200 mm or more.

Claim 11 (original): A holder as set forth in claim 1, wherein the porosity of the ceramic of said ceramic susceptor is 0.03% or less.

Claim 12 (previously presented): A holder as set forth in claim 1, wherein said retaining side has a warpage of 500 μ m or less.

Claim 13 (original): A semiconductor manufacturing device in which the holder of claim 1 is installed.

Claim 14 (original): A liquid-crystal manufacturing device in which the holder of claim 1 is installed.

Claim 15 (new): A holder for semiconductor as well as liquid-crystal manufacturing devices, the holder comprising:

a ceramic susceptor of a ceramic whose thermal conductivity is 100 W/mK or more, said susceptor having a retaining side for retaining an object to be processed;

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a resistive heating element incorporated in said susceptor, said resistive heating element patterned in a circuit having a pattern spacing of 0.1 mm or more; and

a metal plate made of one selected from Al-SiC, Cu-W and Cu-Mo to have a thermal conductivity greater than that of said susceptor, said metal plate fastened by bonding, screws, snug-fitting, or vacuum adhesion onto said susceptor opposite said retaining side, for promoting diffusion of heat from said resistive heating element toward said retaining side.

Claim 16 (new): A holder for semiconductor as well as liquid-crystal manufacturing devices, the holder comprising:

a ceramic susceptor of a ceramic whose thermal conductivity is 100 W/mK or more, said susceptor having a retaining side for retaining an object to be processed;

a resistive heating element incorporated in said susceptor and therein present beyond the middle in the thickness direction of said susceptor, toward the side opposite said retaining side, said resistive heating element patterned in a circuit having a pattern spacing of 0.1 mm or more; and

a metal plate made of one selected from Al-SiC, Cu-W and Cu-Mo to have a thermal conductivity greater than that of said susceptor, said metal plate fastened by bonding, screws, snug-fitting, or vacuum adhesion onto said susceptor opposite said retaining side, for promoting diffusion of heat from said resistive heating element toward said retaining side.